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Under the Reservork Reduction,
Substitute for form 1449/PTO Complete if Known **Application Number** 10/562,410 INFORMATION DISCLOSURE Filing Date December 23, 2005 First Named Inventor Calvin B. Harley STATEMENT BY APPLICANT Art Unit 1611 Confirmation No. 6086 (Use as many sheets as necessary) **Examiner Name** LANDAU, Sharmilla Gollamudi 4 Attorney Docket Number 38797-8007.US00 (511/002) of Sheet

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			U.S. PATENT DO	CUMENTS	
Examiner Initials	Cite No.	Document Number Number-Kind-Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where relevant passages or relevant figures appear
/TL/	1.	US-2002/0182272 A1	12-05-2002	Halstead	
330000	2.	US-2007/0122501 A1	05-31-2007	Harley et al.	
	3.	US-2008/0113925 A1	05-15-2008	Harley et al.	
	4.	US-5,629,154	05-13-1997	Kim et al.	
	5.	US-5,785,977	07-28-1998	Breitbarth	
	6.	US-5,916,565	06-29-1999	Rose et al.	
999999	7.	US-6,007,989	12-28-1999	West et al.	
	8.	US-6,126,942	10-03-2000	Yang	-
* *	9.	US-6,153,208	11-28-2000	McAtee et al.	
V	10.	US-6,277,396 B1	08-21-2001	Dente	
/TL/	11.	US-6,855,344 B2	02-15-2005	Chou	

		FOI	REIGN PATEN	IT DOCUMENTS		
Examiner Initials	Cite No.	Foreign Patent Document Country Code-Number-Kind-Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, where relevant passages or relevant figures appear	Т
/TL/	12.	CN 1079265 C	02-20-2002	Pei (Abstract Only)	ABS ONLY	Abs
000	13.	CN 1383853 A	12-11-2002	Zheng (English Abstract)	ABS ONLY	Abs
000000000000000000000000000000000000000	14.	JP 62-012791	01-21-1987	Osaka Yakuhin Kenkyusho KK (English Abstract)	ABS ONLY	Abs
	15.	WO 00/08135 A1	02-17-2000	Board of Regents, The University of Texas System		
888	16.	WO 00/31238 A2	06-02-2000	Genetica, Inc.		
V	17.	WO 01/01996 A1	01-11-2001	University of Western Australia		
/TĽ/	18.	WO 05/044179 A2	05-19-2005	Hong Kong University of Science and Technology		

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Trans
/TL/	19.	"Astragalus" www.drugs.com/npp/astragalus.html, 5 pages (Oct. 20, 2008).	

Examiner Signature	/Trevor Love/	Date Considered	07/28/2009
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Substitute for form 1449/PTO				Complete if Known		
				Application Number	10/562,410	
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				First Named Inventor	Calvin B. Harley	
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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Trans
/TL/	20.	BEDIR, E. et al., "Cycloartane triterpene glycosides from the roots of Astragalus brachypterus and Astragalus microcephalus," J. Nat. Prod., 61:1469-72 (1998).	
	21.	BEDIR, E. et al., "Immunostimulatory effects of cycloartane-type triterpene glycosides from Astragalus species", <i>Biol. Pharm. Bull.</i> , <u>23</u> (7):834-837 (2000).	
	22.	BODNAR, A. G. et al., "Extension of life-span by introduction of telomerase into normal human cells" <i>Science</i> , 279(5349):349-52 (1998).	
000000000000000000000000000000000000000	23.	CALZADA, L. et al., "Effect of tetracyclic triterpenes (argentatins A, B and D) on the estradiol receptor of hormone-dependent tumors of human breast", <i>Medical Science Research</i> , 23(12):815-16 (1995).	
000000000000000000000000000000000000000	24.	CHIU, C. P. et al., "Replicative senescence and cell immortality: the role of telomeres and telomerase", <i>Proc. Soc. Exp. Biol. Med.</i> , <u>214(2)</u> :99-106 (Feb 1997).	
000000000000000000000000000000000000000	25.	CHU, D-T. et al., "Fractionated extract of Astragalus membranaceus, a Chinese medicinal herb, potentiates lak cell cytotoxicity generated by a low dose of recombinant interleukin-2;" <i>J. Clin. Lab. Immunol.</i> , 26:183-7 (1988).	
***************************************	26.	CHU, D-T. et al., "Immunotherapy with Chinese medicinal herbs. II Reversal of cyclophosphamide-induced immune suppression by administration of fractionated Astragalus membranaceus in vivo," <i>J. Clin. Lab. Immunol.</i> , <u>25</u> :125-9 (1988).	
000000000000000000000000000000000000000	27.	DAGARAG, M. et al., "Differential impairment of lytic and cytokine functions in senescent human immunodeficiency virus type 1-specific cytotox T lymphocytes", <i>Journal of Virology</i> , 77(5):3077-83 (2003).	
	28.	FARWELL, D. G. et al., "Genetic and epigenetic changes in human epithelial cells immortalized by telomerase", <i>American Journal of Pathology</i> , 156(5):1537-47 (2000).	
	29.	FUJIMOTO, R. et al., "Expression of telomerase components in oral keratinocytes and squamous cell carcinomas", <i>Oral Oncology</i> , <u>37</u> (2):132-40 (2001).	
	30.	HARLEY, C. B. et al., "Telomeres shorten during ageing of human fibroblasts", <i>Nature</i> , 345(6274):458-60 (1990).	
	31.	HENDERSON, S. et al., "In situ analysis of changes in telomere size during replicative aging and cell transformation", Journal of Cell Biology, 134(1):1-12 (1996).	
/TL/	32.	IONKOVA, I., "Astragalus species (Milk Vetch): in Vitro culture and the production of saponins, astragaline, and other biologically active compounds," Biotechnology in Agriculture and Forestry, Vol. 33, Medicinal and Aromatic Plants VIII, Y. Bajaj, Ed., Springer Verlag, Berlin, pp. 97-138 (1995).	
•••••	33.	JUNTAO, L. et al., "Effect of retinoic acid and genseng on the telomerase activity in the liver cancer cell," J. Trop. Med. 2(1):39-40 (2002). Cited Twide	e
/TL/ - 8	34.	KANEKO, M. et al., "Accelerated recovery from cyclophosphamide-induced leukopenia in mice administered a Japanese ethical herbal drug, <i>Hochu-ekki-to", Immunopharmacology</i> , 44(3):223-231 (1999).	
	35.	KANG, M. K. et al., "Replicative senescence of normal human oral keratinocytes is associated with the loss of telomerase activity without shortening of telomeres", <i>Cell Growth &amp; Differentiation</i> , 9(1):85-95 (1998).	
/TL/	36.	KHUSHBAKTOVA, Z. A. et al.,"Influence of cycloartanes from plants of the genus Astragalus and their synthetic analogs on the contractive function of the rnyocarbium and the activity of Na, K-ATPase", Chemistry of Natural Compounds, 30(4):469-473 (1994).	•

Examiner	/Trayor Love/	Date 07/28/2009
Signature	/Trevor Love/	Considered

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Substitute for for	rm 1449/PTO			Complete if Known		
				Application Number	10/562,410	
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		NON PATENT LITERATURE DOCUMENTS	T	-
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Trans	
/TL/	37.	KINJO, J. et al., "Anti-herpes virus activity of fabaceous triterpenoidal saponins", <i>Biological &amp; Pharmaceutical Bulletin</i> 23(7):887-9 (2000).		
	38.	LEE, K. M. et al., "Immortalization with telomerase of the Nestin-positive cells of the human pancreas", <i>Biochem Biophys Res Commun</i> , 301(4):1038-44 (2003).		
000000000000000000000000000000000000000	39.	JUNTAO, L. et al., "Effect of retinoic acid and genseng on the telomerase activity in the liver cancer cell," <i>J. Trop. Med.</i> , 2(1):39-40 (2002) (English Abstract).	√ ABS	ON
	40.	MATTSON, M. P., "Emerging neuroprotective strategies for Alzheimer's disease: dietary restriction, telomerase activation, and stem cell therapy", <i>Experimental Gerontology</i> , 35(4):489-502 (2000).		
000000000000000000000000000000000000000	41.	MORALES, C. P. et al., "Absence of cancer-associated changes in human fibroblasts immortalized with telomerase", <i>Nature Genetics</i> , 21(1):115-8 (1999).		
-	42.	ODA, K. et al., "Adjuvant and haemolytic activities of 47 saponins derived from medicinal and food plants", <i>Biological Chemistry</i> , 381(1):67-74 (2000).		
	43.	OH, H. and Schneider, M. D., "The emerging role of telomerase in cardiac muscle cell growth and survival", <i>Journal of Molecular Cellular Cardiology</i> , 34(7):717-24 (2002).		
	44.	SIMONSEN, J. L. et al., "Telomerase expression extends the proliferative life-span and maintains the osteogenic potential of human bone marrow stromal cells", <i>Nature Biotechnology</i> , 20(6):592-6 (2002).		
200000000000000000000000000000000000000	45.	THOMAS, M., Yang, L., and Hornsby, P. J., "Formation of functional tissue from transplanted adrenocortical cells expressing telomerase reverse transcriptase", <i>Nature Biotechnology</i> , 18(1):39-42 (2000).		
	46.	VASA, M. et al., "Nitric oxide activates telomerase and delays endothelial cell senescence", Circulation Research, 87(7):540-542 (2000).		
	47.	WANG, Y-P. et al., "Effect of astragaloside IV on T, B lymphocyte proliferation and peritoneal macrophage function in mice", <i>Acta Pharmacologica Sinica</i> , 23(3): 263-6 (2002).		
	48.	XIAO, H. et al., "Total analytical method for Radix astragali extract using two-binary multi- segment gradient elution liquid chromatography," J. Sep. Sci., 24:186-96 (2001).		
	49.	YANG, J. et al., "Telomerized human microvasculature is functional in vivo", <i>Nature Biotechnology</i> , 19(3):219-24 (2001).		
	50.	YANG, J., et al., "Human endothelial cell life extension by telomerase expression", <i>The Journal of Biological Chemistry</i> , <u>274</u> (37):26141-26148 (1999).		
	51.	YUDOH, K. et al., "Reconstituting telomerase activity using the telomerase catalytic subunit prevents the telomere shorting and replicative senescence in human osteoblasts", <i>Journal of Bone and Mineral Research</i> , 16(8):1453-1464 (2001).		
/TL/	52.	ZHANG W. J. et al., "Regulation of the fibrinolytic potential of cultured human umbilical vein endothelial cells: astragaloside IV downregulates plasminogen activator inhibitor-1 and upregulates tissue-type plasminogen activator expression", <i>Journal of Vascular Research</i> , 34(4):273-80 (1997).		
	59.	ZHAO, K. et al., "Enhancement of the immune response in mice by Astrogalus Copy not membraneous extracts" Immunopharmacology 20:225-34 (1990)	reciev	ed
/TL/	54.	ZHENG, Z. et al., "Studies on chemical constituents and immunological function activity of hairy root of Astragalus membranaceus," <i>Chinese Journal of Biotechnology</i> , 14(2):L93-7 (1998).		000000

Examiner Signature /Trevor Love/ Date Considered 07/28/2009	
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Substitute for form 1449/PTO Complete if Known Application Number 10/562,410 December 23, 2005 Filing Date INFORMATION DISCLOSURE First Named Inventor Calvin B. Harley STATEMENT BY APPLICANT Art Unit 1611 Confirmation No. 6086 (Use as many sheets as necessary) **Examiner Name** LANDAU, Sharmilla Gollamudi Attorney Docket Number 38797-8007.US00 (511/002) 4 4 of Sheet

		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Trans
/TL/	55.	ZI-PU, L. and Qian, C., "Effects of astragaloside IV on myocardial calcium transport and cardiac function in ischemic rats", <i>Acta Pharmacol Sin</i> 23(10):898-904 (2002).	

Examiner   /Trevor Love/	Date Considered	07/28/2009
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